

What Is Claimed Is:

1. A device for classifying at least one object with the aid of an environmental sensor system (30),
wherein the device is configured in such a manner, that
the device classifies the at least one object (11) on the
basis of its velocity (VO) and acceleration, the device
determining the velocity (VO) and the acceleration from
at least one signal of the environmental sensor system
(30).
2. The device as recited in Claim 1,
wherein the acceleration is determined on the basis of at
least one reference acceleration.
3. The device as recited in Claim 1,
wherein the acceleration is determined on the basis of a
time characteristic of the reference velocity (VE) and of
the object velocity (VO).
4. The device as recited in one of the preceding claims,
wherein the device may be coupled to a restraint system
(35) in such a manner, that the restraint system (35) is
controlled as a function of the classification of the at
least one object.
5. The device as recited in one of the preceding claims,
wherein the velocity (VO) is determined with the aid of
the reference velocity (VE).
6. The device as recited in one of Claims 1 through 4,
wherein the velocity (VO) is determined on the basis of a
time characteristic of location information.

7. The device as recited in one of the preceding claims, wherein the environmental sensor system (30) has at least one photonic mixer device.
8. The device as recited in one of the preceding claims, wherein the environmental sensor system (30) has a LIDAR system.
9. The device as recited in one of the preceding claims, wherein the device is configured for outputting information to the driver, the output taking place as a function of the classification.
10. The device as recited in Claim 9, wherein the information is outputted haptically.